

Evaluation # 200237-I

Safety & Buildings Division 201 West Washington Avenue P.O. Box 2658 Madison, WI 53701-2658

Wisconsin **Building Products Evaluation**

Material

Closed Cell Elastomeric Pipe Insulation

Manufacturer

Aeroflex International Co., LTD. 770 MU 6, Teparak Rd. Teparak, Samutprakarn 10270 Thailand

SCOPE OF EVALUATION

GENERAL: This report evaluates the use of Aeroflex closed cell elastomeric thermal insulation (tubes, sheets PSA sheets, continuous sheet roll, and SS/PT).

The (**UDC**) requirements below are in accordance with the current Wisconsin Uniform Dwelling Code:

- <u>Foam Plastic</u>: The Aeroflex closed cell elastomeric thermal insulation (tubes, sheets PSA sheets, continuous sheet roll, and SS/PT) was evaluated in accordance with **s. Comm 21.11(1)(a)** and **s. Comm 21.11(2)**.
- <u>Pipe Insulation</u>: The Aeroflex closed cell elastomeric thermal insulation (tubes, sheets PSA sheets, continuous sheet roll, and SS/PT) was evaluated in accordance with **s. Comm 22.19(1)**.

This review includes the cited **Comm** code requirements below in accordance with the current **Wisconsin Building and Heating, Ventilating and Air conditioning Code:**

• <u>Foam Plastic</u>: The Aeroflex closed cell elastomeric thermal insulation (tubes, sheets PSA sheets, continuous sheet roll, and SS/PT) was evaluated in accordance with s. Comm 51.06(2) and s. Comm 51.06(7).

• <u>Pipe Insulation</u>: The Aeroflex closed cell elastomeric thermal insulation (tubes, sheets PSA sheets, continuous sheet roll, and SS/PT) was evaluated in accordance with **s. Comm 64.23(3)**, **s. Comm 64.37** and for use within a plenum in accordance with **s. Comm 64.41(4)(a)**

This review includes the cited **International Building Code** (**IBC**) requirements below in accordance with the **Wisconsin Amended IBC Code** (**effective 7/01/02**):

• <u>Foam Plastic</u>: The Aeroflex closed cell elastomeric thermal insulation (tubes, sheets PSA sheets, continuous sheet roll, and SS/PT) was evaluated in accordance with **s. IBC 2603.3**.

This review includes the cited **International Mechanical Code (IMC)** requirements below in accordance with the **Wisconsin Amended IMC Code (effective 7/01/02):**

<u>Foam Plastic</u>: The Aeroflex closed cell elastomeric thermal insulation (tubes, sheets PSA sheets, continuous sheet roll, and SS/PT) was evaluated in accordance with **s. IMC 602.2.1**, for material exposed within plenums.

DESCRIPTION AND USE

<u>General</u>: Aeroflex is a closed cell elastomeric, flexible tube and sheet insulation product used to insulate liquid cooling and heating lines.

The Product:

- **Aerocel Tube Insulation (AC xxxx):** is installed on pipe or tubing. A factory applied coating of talcum powder on the thick and smooth inner skin is for ease of installation.
- Aerocel SS/PT (AC xxxx SS/PT): is a tube insulation slit lengthwise with self-sealing tape and a protective flap to prevent moisture penetration at seams.
- **Aerocel Standard Sheet (ACS43-series):** is available in 36" x 48" sheets, in thickness of 1/8" to 2", for use on large pipes, tanks, chillers, air ducts and other irregular shaped vessels.
- Aerocel Self Adhering Sheet (ACS43 xx A): is the same as the standard sheet above, except it pressure sensitive adhesive.
- **Aerocel Continuous Sheet Roll (ACSR-series):** is available in 4' wide x 8' to 150' varying lengths depending on thickness (1/8" to 2").

All insulation sheets and sheet rolls are made from the same material as Aerocel tubing.

TESTS AND RESULTS

The tests and results listed below cover the current Wisconsin Uniform Dwelling Code (**Comm**), Wisconsin Building Code (**Comm**), **IBC** and **IMC** requirements.

Foam Plastic: Testing in accordance with ASTM E84 was conducted by SGS U.S. Testing Company. The test results: Flame Spread Index was 20, and Smoke Density was 50.

LIMITATIONS OF APPROVAL

The Aeroflex closed cell elastomeric thermal insulation (tubes, sheets PSA sheets, continuous sheet roll, and SS/PT), shall be installed in accordance with the manufacturer's installation instructions.

This approval will be valid through December 31, 2007, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The Wisconsin Building Product Evaluation number must be provided when plans that include this product are submitted for review.

DISCLAIMER

The department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement not specified in this document.

Revision Date:		
Approval Date: July 18, 2002	By:	
		Lee E. Finley, Jr.
		Product & Material Review
		Integrated Services Bureau

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